

PTO-1449 (Modified) U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Attorney Docket No.: UNVN.69827	Serial Number: 09/890,445
	Applicant(s): Christopher Tuan et al.	
	Filing Date: July 30, 2001	Group: 3742

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE

FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION							
EXAMINER INITIAL	DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION	
						YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Relevant Pages, Place of Publication)

<i>[Signature]</i>	William D. Callister, Jr., Material Science and Engineering; Chapter 16: Composites, pp. 388-410, The University of Utah.
<i>[Signature]</i>	Milo D. Cress, Extending the Lifespan of Structures, Heated Bridge Deck Construction and Operation in Lincoln, Nebraska, pp. 449-454, 1995.
<i>[Signature]</i>	Alan J. Rabideau, A. Scott Weber, A.M. ASCE, and Mark R. Matsumoto, A.M. ASCE, Impact of Calcium Magnesium Acetate Road Deicer on POTW Operation, Journal of Water Resources Planning and Management, Vol. 113, No. 2, pp. 311-315, March, 1987.
<i>[Signature]</i>	Joseph A. Zenewitz, Survey of Alternatives to the Use of Chlorides for Highway Deicing, Federal Highway Administration, Report No. FHWA-RD-77-52, May, 1977, Final Report.
<i>[Signature]</i>	D.J. Henderson, Supervising Electrical Engineer, Bureau of Electrical Operations, New Jersey State Highway Department, Concrete Bridge Decks and Pavement Surfaces 8 Reports, Highway Research Board of the National Academy of Sciences - National Research Council, Publication 1111, pp. 14-28.

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JUL 24 2002

TECHNOLOGY CENTER R3700

EXAMINER <i>[Signature]</i>	DATE CONSIDERED 5/23/03
EXAMINER: Initial citation if reference was considered. Draw line through citation if not in conformance to MPEP 609 and not considered. Include copy of this form with next communication to applicant.	



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U.S. PATENT DOCUMENTS

EXAMINER INITIAL	PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE
<i>gno</i>	3,377,462	April 9, 1968	Herbert Pferschy			
	3,573,427	April 6, 1971	Louis David Minsk			
	4,301,356	Nov. 17, 1981	Tanei et al.			
	4,697,063	Sept. 29, 1987	Germundson			
	5,030,282	July 9, 1991	Matsushashi et al.			
	5,447,564	Sept. 5, 1995	Xie et al.			
<i>jny</i>	5,707,171	Jan. 13, 1998	Zaleski et al.			




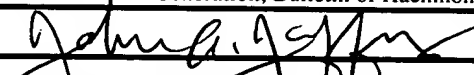
FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

EXAMINER INITIAL	DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
<i>gno</i>	836117	March 3, 1970	Canada ✓			X	
<i>jny</i>	1,117,579	Feb. 2, 1982	Canada ✓			X	
<i>jny</i>	1,363,429	Aug. 14, 1974	London GB ✓			X	

OTHER DOCUMENTS (Including Author, Title, Date, Relevant Pages, Place of Publication)

<i>gno</i>	Anonymous "Electrical Properties of Concrete"; Concrete and Constructional Engineering; p. 195; London, May, 1963
<i>gno</i>	J.R. Farrar; "Electrically Conductive Concrete"; GEC Journal of Science and Technology; Vol. 45, No. 1, pp. 45-48; 1978
<i>gno</i>	Whittington, McCarter and Forde; "The Conduction of Electricity Through Concrete"; Magazine of Concrete Research; Vol. 33, No. 114, pp. 48-60; March, 1981
<i>gno</i>	P. Xie and J.J. Beaudoin; "Electrically Conductive Concrete and Its Application in Deicing"; Advances in Concrete Technology Proceedings of the Second CANMET/ACI International Symposium; pp. 399-417; Las Vegas, Nevada; 1995
<i>gno</i>	P. Xie, P. Gu and J.J. Beaudoin; "Electrical Percolation Phenomena in Cement Composites Containing Conductive Fibres"; Journal of Materials Science; Vol. 31, No. 15, pp. 4093-4097; August, 1996
<i>gno</i>	S. Yehia and C.Y. Tuan; "Bridge Deck Deicing"; Crossroads 2000 Proceedings, Iowa State University; Ames, Iowa; August 19-20, 1998
<i>gno</i>	S. Yehia and C.Y. Tuan; "Conductive Concrete Overlay"; Concrete Engineering International; Vol. 3, No. 1, pp. 70-72; January/February, 1999
<i>gno</i>	S. Yehia and C.Y. Tuan; "Conductive Concrete Overlay for Bridge Deck Deicing"; ACI Materials Journal; Vol. 96, No. 3 pp. 382-390; May/June, 1999

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	S. Yehia and C.Y. Tuan, D. Ferdon and B. Chen; "Conductive Concrete Overlay for Bridge Deck Deicing: Mixture Proportioning, Optimization and Properties; ACI Materials Journal, Vol. 97, pp. 172-181, March/April, 2000
	S. Yehia and C.Y. Tuan; "Thin Conductive Concrete Overlay for Bridge Deck Deicing and Anti-icing"; Transportation Research Board, 79th Annual Meeting, Washington, D.C.; January 9-13, 2000;
	Sasaki Mikio, Fujita Shigetaka, Kaga Takuya, Koyama Nobuji; Abstract for "Snow Melting System with Electric Heating using Photovoltaic Power Generation; Bulletin of Hachinohe Institute of Technology; Vol. 16, pp. 107-116; 1997
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